

# CSCI 410 Pattern Recognition

## Assignment Six

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1. Implement the K-means algorithm using Section 14.2 and Table 14.1 as a reference.
2. Use Matlab's implementation of kmeans to check your results on the fisheriris dataset (<https://www.mathworks.com/help/stats/kmeans.html>)
  - a. The fisheriris dataset is built into Matlab, and you can load it using 'load fisheriris'.
  - b. Please note the labels are available for the dataset, so you can check the performance of the kmeans algorithm on the dataset.

### Turn-in:

1. The matlab code you created to implement the kmeans algorithm described in the textbook.
2. The matlab code you created that calls the Matlab implementation of Kmeans.
3. A *report* detailing the performance of the algorithm you implemented and the performance of the Matlab implementation of the algorithm (Note: they may be the same or similar).